

Product Benefits

- Suppression and control of **Poa annua** in bentgrass.
- Growth regulation and enhancement in **C3 grasses**.
- Reduces clippings and increases turf density.
- Minimal surface disruption during treatment of **Poa**.
- Liquid formulation especially for turf application.
- Contains surfactant package to enhance root uptake.
- Offers complete rate and nutritional flexibility.
- Developed and manufactured in Australia.

The degree of winter grass control will be influenced primarily by the rate and frequency at which SHORTstop TGR is used. Most temperate research shows that a 'little and often' application strategy is the most effective means of suppressing wintergrass competition in a bentgrass greens (see your tech rep for more info).

The TGR ingredient in Shortstop is root absorbed and must be watered in to take effect. After irrigation, the TGR binds to organic carbon and therefore settles at the very top layer of soil, where wintergrass roots congregate due to their shallow habit. Because bentgrass and other cool season grasses (when healthy) produce deeper rooting, they display less sensitivity to TGR.

By maintaining sufficient levels of SHORTstop TGR in the surface of the root zone during cool season growth, wintergrass will be inhibited while other cool season grasses grow unaffected. Shortstop TGR is therefore a tool to shift the competitive dynamics of a cool season sward, in favour of other more desirable cool season species such as bentgrass, ryegrass or fescue.

Cultural practices, climate, soil type, turfgrass variety and wintergrass biotype also play a part in the degree of control achieved when using Shortstop TGR. A coordinate program that combines nutritional, cultural and mechanical aspects of turf maintenance will enhance the degree of control achieved.

After application of Shortstop TGR, the growth and competitive ability of wintergrass will be reduced within 1-2 weeks. The degree of discolouration and growth reduction is directly related to the rate used. Very low rates can be used on a pure *Poa annua* surface to achieve turf density and seed head control, while heavier applications will discolour wintergrass severely.



Product Information

Composition

Suspension concentrate
Milky white liquid
20% Paclobutrazol TGR

Net Volume

2.5 litre

Rate sensitivity guide

0.5L / ha - For wintergrass enhancement, seed head reduction and attainment of playing surface speed.

1.0L / ha – For growth enhancement of bent, rye and other C3 turf, and vertical growth while enhancing evenness and depth of colour.

>1.5L / ha – Suppression and control of *Poa annua* in bentgrass turf. The length of suppression is directly proportional to rate. 1.5L / ha would provide 2-4 weeks suppression of *Poa annua*.

General Information

SHORTstop TGR is a suspension concentrate formulation for spray application after dilution with water. Apply to dry or wet turf and water in immediately with 4-6mm of sprinkler irrigation.

Application 1-2 weeks prior to Poa annua seed-head emergence will reduce its visibility but not its formation.

Repeat applications 4-8 weeks apart (depending on rate) are required where Poa annua content is high (See Critical Comments for restrictions).

Overseeding is recommended to hasten the conversion from winter grass to more desirable grasses. To avoid stunting the growth of desirable seedlings, allow at least 14 days after treatment before overseeding, and in newly overseeded areas, make treatments at least 6 weeks after overseeding.

On new grass plantings delay application until after establishment. Delay planting grass seed until after heavy rain or watering and not sooner than 1 month after application.

SHORTstop TGR - Directions for use

SITUATION	RATE	COMMENTS
Bent grass, ryegrass, Kentucky, bluegrass, winter grass, turfgrass .	0.5-2 L/ha (5-20 mL/100 square metres)	Apply the 0.5 L/ha rate at 2-4 week intervals or the 1-2 L/ha rate at 4-8 week intervals. Use only the low rate (0.5 L/ha) on winter grass. Continue normal cultural practices after application.
Bent grass, ryegrass, Kentucky, bluegrass, couch grass (not hybrid couch) turfgrass.	2.0-2.8 L/ha (20-28 mL/100 square metres)	Use the lower rate when the percentage of winter grass in the turf is so high that the resultant yellowing and retardation would be too extensive to be acceptable. Otherwise use the higher rate. Do not apply more than 2 spring or 1 autumn application. Continue normal cultural practices after application.

DO NOT apply when daytime temperatures are consistently above 32°C or when turf is stressed from heat, cold or lack of moisture.

DO NOT apply when soils are waterlogged as fixing onto the soil will not occur and the TGR may move with heavy rainfall or irrigation.

DO NOT apply when turf has been thinned from disease or insect infestation or damaged from aeration or scarifying.

DO NOT apply to overseeded areas until after establishment and then only use the lower rates until recovery has occurred.

DO NOT scarify and topdress greens whilst winter grass is undergoing growth regulation.



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